BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Name of Work:-Detailed Estime for Maintenance Repairs & Providing Aerial Bunched cable and Street lighting and automatic timer controller to Major sandeep unikrishna road to Ms Palya by using tubular poles to yelahanka constituency area in Ward No 03

Ward No. 04 **Estimate No:-** **For Rs.** **900000.00**

Sl No	SR Page & SL No	Description Of Work	Unit	Qty	Rate	Amount
1	56/7.6.3	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.3 X 16 + 1 X 25 + 1 X 16 SQ.MM	Per Mtr	1900	117.00	222300.00
2	Bes SR	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Per Mtr	1900	10.30	19570.00
3	1.1.1	Digging of Pits 1.8 mtr depth for errection of 9 to 10mtr Long Steel/RCC/PSC supports as per approved Drawing.Ordinary Soil	Nos	10	378.00	3780.00
4	2.1	Erection of steel supports 9.0 to 10.00 mtr long suchas 22.68 kg (50 lbs) Rail, 27.22 kg (60 Lbs) Rail IBeam of sizes 200x100mm, 175x90 mm, 125x100mm. Fabricates poles tubular poles in pits of 1.8 mtrDepth, Aligning, Refilling with soil and ramming asapproved drawing	Nos	10	304.00	3040.00
5	1.8.2	Pole concreting with CC 1:2:4 (without coping) f) 8mtrs support (400x400x1500mm)	Nos	10	982.00	9820.00
6	17.1	Any Dismantling work 90% of the corresponding erection charges(304x90%=273.6)	Nos	10	273.60	2736.00
7	27.1	Transportation using 7.5/10 Tons Lorry Rs. 23 per Kms subjected to a minimum of Rs. 1200/-per day (shifting of Panel boards & Poles)	Nos	5	1200.00	6000.00
8	16.28.3	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/footing of the pole .8Mtr and above street light pole.	Nos	10	700.00	7000.00
9	55/7.4.5	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.3.5 core 25 sqmm	Mtrs	150	165.60	24840.00
10	61/7.8.2	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.25 sqmm to 75 sqmm	Mtrs	150	16.20	2430.00
11	61/7.9.1	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs	125	78.00	9750.00

12	6/2.6.7	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	Mtrs	70	132.00	9240.00
13	17/3.10	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Mtrs	49	263.00	12887.00
14	48.1	Laying of UG Cables by trenchless technology by adopting horizontalboring & Drawing of cable including preparation at site With HDPE Pipei) Normal soil 5" bore size	Mtrs	90	848.00	76320.00
15	2.09	2 Pin Cross Arm with pole clamp, bolt & nuts & washers for RCC Pole - MS	Nos	25	162.00	4050.00
16	53.15	Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections	Nos	25	160.00	4000.00
17	53.23	Suspension Clamp Assembly16 to 70 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook)	Nos	24	190.00	4560.00
18	53.19	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook)	Nos	4	131.00	524.00
19	4.1	Fixing of 2 Pin cross arm with insulator and Braces fixing	Nos	24	96.00	2304.00
20	46.6	Erection of Suspension Clamp - 25 to 95 sqmm bare messenger	Nos	24	115.00	2760.00
21	46.12	Installation of Insulation piercing connector for main to street lightMain : 16-95sqmm, Tap : 1.5-10sqmm(EP95)	Nos	24	54.00	1296.00
22	46.10	Fixing of Universal Hook/Dead end clamp	Nos	4	115.00	460.00
23	49/6.40.2	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sqcm	210000	0.33	69300.00
24	46/6.13.A.1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.	Nos	10	4044.00	40440.00

25	AR	Thiristor based single/ Three phase smart street light control and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.	Nos	7	51500.00	360500.00
		Mislenious				93.00
		Total Rs				**900000.00**

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R.2014-15 , BESCOM SR and Approved Rates.

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 9.00 lakhs
Rupees Nine Lakh ONLY
is accorded under PO 294 M.AND R TO ELECTRICAL INST IN BMPP BUILDINGS SCHOOLS M HOMES COMMUNITY HALL MARKETS OTHERS
Registered as EE No. 03/18-19 Subject to conditions contained in enclosed memo No. BBMP/EE(ELE)/YZ/AS/03/2018-19 dt Dt 25.09.2018

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 9.00 lakhs
Rupees NINE LAKH ONLY
Under PO294 M AND R TO ELECTRICAL BBMP BUILDING SCHOOL COMMUNITY
Registered as EE ( ) No. 03/2018-19 9 9
Subject to conditions contained in enclosed memo EE ( ) No. EE(ELE)/YZ/AS/3/18-19
Dt. 25.09.2018 Estimate A/ Sanctioned
BBMP/EE(ELE)/YZ/TS/03/ No. 2018-19
Dated 25.09.2018 Rs. 9.00 lakhs

Executive Engineer